

Message Text

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FM SECSTATE WASHDC

TO AMEMBASSY TEHRAN

UNCLAS STATE 158603

E.O. 11652: N/A

TAGS: TPHY OSCI TGEN IR

SUBJECT: VISIT OF IRANIAN EXPERTS TO US TO STUDY RADIO ASTRONOMY
AND REMOTE SENSING APPLICATIONS UNDER JOINT COOPERATION
COMMISSION COMMITTEE ON SCIENCE TECHNOLOGY AND EDUCATION

REF: TEHRAN 5621 AND 5398; STATE 146432 AND 34222

SUMMARY. IN COOPERATION WITH OTHER USG AGENCIES NATIONAL SCIENCE
FOUNDATION HAS COMPILED LISTS OF US CENTERS SUITABLE FOR VISITS
OF TWO TEAMS OF IRANIAN EXPERTS IN RADIO ASTRONOMY AND REMOTE
SENSING APPLICATIONS, RESPECTIVELY. THIS CONCLUDES RESPONSE BY
NSF TO DR. BAHMAN PARSA'S REQUEST TEHRAN 5398.

FOR EACH TEAM COSTS HAVE BEEN ESTIMATED FOR WITHIN USA TRAVEL,
PER DIEM, SCIENTIFICALLY KNOWLEDGEABLE ESCORT, CONTRACTOR FOR
ARRANGING TRAVEL DETAILS, AND USG AGENCY COSTS. NSF URGENTLY NEEDS
(1) NAMES AND BIODATA OF MEMBERS, (2) PROPOSED DURATION OF VIS-
ITS, (3) TENTATIVE ETA, AND (4) AGREEMENT REGARDING COSTS. END
SUMMARY.

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I. RADIO ASTRONOMY. TOUR WOULD BEGIN WITH BRIEFING IN WASHINGTON,

DC, BY NSF, OTHER APPROPRIATE AGENCIES. VISIT TO GODDARD SPACE FLIGHT CENTER IN WASHINGTON AREA SUGGESTED. DEBRIEFING CONFERENCE IN WASHINGTON TO ASSESS ALTERNATIVES RECOMMENDED. STOPS WOULD BE SELECTED FROM FOLLOWING LIST OF CENTERS, NOT YET CONTACTED.

RADIO ASTRONOMY:

1. UNIVERSITY OF MASSACHUSETTS
AMHERST, MA

(FIVE COLLEGE RADIO OBSERVATORY)

2. HAYSTACK OBSERVATORY
WESTFORD, MA

(PRECISE RADIO TELESCOPES)

3. UNIVERSITY OF CALIFORNIA, BERKELEY
(MILIMETER WAVE LENGTH INTERFEROMETER)

HAT CREEK RADIO OBSERVATORY
(COMPLETELY AUTOMATED 85' RADIO TELESCOPE)

4. CALIFORNIA INSTITUTE OF TECHNOLOGY
PASADENA, CA

OWENS VALLEY RADIO OBSERVATORY
(TWO EXCELLENT RADIO TELESCOPES)

JET PROPULSION LABORATORY
(RADIO RADAR TELESCOPE FOR MONITORING SPACE SHOTS, ALSO FOR RADIO ASTRONOMY)

5. KITT PEAK NATIONAL OBSERVATORY
TUCSON, AZ

(MAKES OBSERVING EQUIPMENT AND SERVICES AVAILABLE TO VISITING SCIENTISTS)

6. MCDONALD OBSERVATORY
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UNIVERSITY OF TEXAS
MT. LOCKE, TX

(OBSERVATION OF INTERSTELLAR MOLECULES)

7. NATIONAL ASTRONOMY AND IONOSPHERE CENTER
ARECIBO, PR

(WORLD'S LARGEST RADIO TELESCOPE)

8. NATIONAL RADIO ASTRONOMY OBSERVATORY
GREEN BANK, WV

(OPERATES 140 AND 300 FOOT RADIO TELESCOPES AND 3 ELEMENT INTERFEROMETER)

II. REMOTE SENSING APPLICATIONS. TOUR WOULD BEGIN WITH BRIEFING IN WASHINGTON, DC, BY NSF, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA), US GEOLOGICAL SURVEY (USGS), OTHER APPROPRIATE AGENCIES. VISIT TO NASA'S GODDARD SPACE FLIGHT CENTER AND USGS IN WASHINGTON AREA SUGGESTED FOR OVERVIEW OF ONGOING AND PLANNED STUDIES. DEBRIEFING CONFERENCE IN WASHINGTON TO ASSESS ALTERNATIVES RECOMMENDED. STOPS WOULD BE SELECTED FROM FOLLOWING LISTS OF CENTERS, NOT YET CONTACTED.

REMOTE SENSING APPLICATIONS:

1. NASA LANGLEY RESEARCH CENTER
HAMPTON, VA

(CHLOROPHYL AND ALGAE DETERMINATION)

2. ENVIRONMENTAL RESEARCH INSTITUTE OF MICHIGAN
ANN ARBOR, MI

(MULTISPECTRAL SENSING OF WATER PARAMETERS)

3. DEPARTMENT OF CIVIL AND ENVIRONMENT ENGINEERING
UNIVERSITY OF WISCONSIN
MADISON WI

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(DISPERSION AND DIFFUSION OF POLLUTANTS)

4. EROS DATA CENTER, DEPARTMENT OF INTERIOR
SIOUX FALLS, SD

(ACQUISITION, DISTRIBUTION, AND INTERPRETATION OF LANDSAT DATA AND IMAGERY)

5. DEPARTMENT OF PLANETARY AND SPACE SCIENCES
UNIVERSITY OF CALIFORNIA AT LOS ANGELES

(CORRELATION OF MEANDER AND DISCHARGE SPECTRA)

6. DEPARTMENT OF CIVIL ENGINEERING
UNIVERSITY OF HAWAII

(MULTISPECTRAL PHOTOGRAPHY TO LOCATE OFF SHORE FRESH WATER SPRINGS)

7. USGS
FLAGSTAFF, AZ

(COMPUTER MANIPULATION OF LANDSAT DATA)

8. DEPARTMENT OF HYDROLOGY AND WATER RESOURCES
UNIVERSITY OF ARIZONA
TUCSON, AZ

(WATER QUALITY MONITORING)

9. DEPARTMENT OF GEOSCIENCES
TEXAS TECH UNIVERSITY
LUBBOCK, TX

(IMAGERY FOR WATER INVENTORY)

10. UNIVERSITY OF KANSAS CENTER FOR RESEARCH
MANHATTAN, KS

(MONITORING OF FRESH WATER RESOURCES)

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III. ESTIMATE OF COSTS

1. JET ECONOMY AIR FARE PER PERSON WITHIN USA IF ALL CENTERS OF RESPECTIVE LISTS INCLUDED IN GEOGRAPHICAL ORDER AS LISTED:

RADIO ASTRONOMY TEAM	\$790
REMOTE SENSING APPLICATIONS TEAM	\$915

2. GROUND TRANSPORTATION, AIRPORT TO LABORATORY, ROUGHLY ESTIMATED:

RADIO ASTRONOMY TEAM	\$400 PER PERSON
REMOTE SENSING APPLICATIONS TEAM	\$300 PER PERSON

3. ESCORT. NSF STRONGLY RECOMMENDS HIRING ONE FULL TIME US SCIENTIST FOR EACH TEAM AS ESCORT. NSF WILL NEGOTIATE FOR SERVICES OF ESCORTS IF GOI APPROVES. SALARY ESTIMATED AT \$2,200 PER MONTH FOR EACH ESCORT, PLUS TRANSPORTATION AND SUBSISTENCE.

4. SUBSISTENCE. \$50 PER PERSON PER DAY, INCLUDING LOCAL TRANSPORTATION AND INCIDENTAL COSTS.

5. DURATION OF TOURS. NSF PERCEIVES 3 TO 4 WEEK TOUR FOR EACH

TEAM.

6. TRAVEL AND HOTEL ARRANGEMENTS. TENTATIVE AGREEMENT REACHED WITH CONTRACTOR FOR THESE ARRANGEMENTS AT NO COST IF TICKETS PURCHASED THROUGH CONTRACTOR AT REGULAR RATES.

7. USG AGENCY COSTS. APPROXIMATELY \$8,000 FOR PLANNING, BRIEFING, DEBRIEFING, AND MANAGEMENT FOR EACH TEAM.

IV. VISITING TEAM, TENTATIVE ETA, DURATION OF TOUR, AND ITINERARY. NSF URGENTLY NEEDS FOLLOWING INFORMATION:

1. NUMBER AND BIODATA OF TEAM MEMBERS.

2. TENTATIVE ETA ESSENTIAL FOR ARRANGING ITINERARY.

3. GOI APPROVAL OF CENTERS SELECTED FOR TOUR. MOST CENTERS WILL NOT BE CONTACTED UNTIL GOI APPROVAL RECEIVED.

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V. FINANCIAL ARRANGEMENTS SAME AS IN REFTEL STATE 146432.

VI. ACTION.

1. THIS COMPLETES NSF REPLY TO TEHRAN 5398 AND 5621.

2. EMBASSY PLEASE CONVEY THIS MESSAGE ASAP TO DR. PARSA. REPLY NEEDED EARLIEST TO PROCEED WITH ARRANGEMENTS. SISCO

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Message Attributes

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